



GNC MARINE

PRODUCT DATA SHEET

MicroClean Plus

MicroClean Plus

An advanced, highly water dilutable product for use in cleaning and degreasing a variety of non-porous surfaces found in ships and off-shore structures. Ideal for use in engine rooms and ancillary equipment rooms, as a machine parts and filter cleaner, deck and cargo hold cleaner. As a 'quick split' formulation this product, combined with its low usage rate means it has a minimal effect on bilge and oily water separator performance.

Product Description

MicroClean Plus is a micro-emulsion formulation and combines bio-based surfactants with naturally occurring plant esters. The result is a highly water dilutable cleaner that includes the benefits both of excellent detergency (surfactant) and the *pseudo*-solvent action of the ester (alcohol/acid).

The formulation is readily biodegradable and with an excellent environmental profile. It is also non-corrosive to skin and does not require assignment of a UN number. The formulation also includes ingredients that actively reduce redistribution of oils.

The micro-emulsion is effective immediately upon application. When highly diluted (in bilge or in waste water) or after prolonged holding, the emulsion breaks and the oils split out cleanly without leaving an emulsion interface.

Ideal single degreaser for engine rooms, filter disc and elements (manual or soak/sonicating bath), separators, car decks, cargo holds*

MicroClean Plus does not contain nor interfere with micro-organisms in the bilge and stored water tanks. Bacteria are known to breakdown oils in the oily water interface and produce organic acids that act as substrate for anaerobic bacteria that in turn cause corrosion and malodour.

**for porous surfaces on shore such as concrete it is recommended to use GNC Marine OilOff, a bioremediation product.*

Regulatory

Violation of Annex I of the International Convention for the Prevention of Pollution from Ships (MARPOL), 1973, as modified by the Protocol of 1978 is a criminal offence and is rigorously policed. This covers the discharge of oil or oily mixtures from ship's machinery spaces, from any vessel, which is prohibited unless the vessel is underway, the mixture has been treated by an approved oily water separator, and the oil content is below 15ppm. Any cleaning product used up stream of, or in the bilge system must not worsen or cause such breaches.

Features and Benefits

Features	<ul style="list-style-type: none">• Aqueous, water-dilutable formulation• Combination of bio-based detergents, esters and sequesterants• Highly effective against a wide range of hydrocarbon soils but also quick breaking in the bilge or oily waste tank• Contains no VOCs, solvents or phosphates• All ingredients are highly biodegradable• Specially selected bacteria for biodegradation of the
Benefits	<ul style="list-style-type: none">• Unique and powerful degreaser for solubilisation and removal of any oil from non-porous surfaces• Spray on, wipe off formulation• Low volume of product required for effective clean compared to standard engine room cleaners.• Multi-purpose degreaser for all non-porous surfaces, thus replacing the need for several products• Low cost in use• Non-corrosive to skin• Quick splitting formulation resulting in minimal effect on bilge water handling. No interface emulsion• Promotes efficient OWS to function resulting in reduced volume of oily waste requiring disposal• Does not interfere with operation of oily water monitors

Application/Directions for Use

General Hard (non-porous) Surface Use

For heavy soiling:

Mix 1 part MicroClean Plus with 19 parts water (1/20 dilution)* in a trigger spray bottle. Spray the soiled surface and allow to stand for approximately 5 minutes. Wipe off with a suitable cloth. For stubborn deposits agitate with a stiff brush before wiping. Do not rinse and avoid allowing liquid to run into the bilge.

For light soiling:

Repeat as above, but it should be possible to wipe off with just a few seconds contact.

**In some circumstances it might be preferable to dilute to 1 part MicroClean to 9 parts water (1/10)*

Pressure Washer on (non-porous surface)

If supplying from a mixing tank, Mix 1 part MicroClean Plus with 39 parts water (1/40). Alternatively, set the auto-dosing to 1/40. Spray the soiled surface using a pressure of between 120-250 Bar (1740-3626 psi) pressure.

Oily Water Separators (OWS)

Secure discharge valves of OWS. Calculate the volume of separator, add use approx. 1/20th of the total volume of MicroClean Plus. Circulate through the system for up to 24hrs. Allow to stand and empty contents as usual. Do not over dose or under dilute the product for this application

Soak bath, machine parts washers and sonicating baths

Dilute MicroClean Plus to between 1/4 to 1/20 dependent upon the applications (refer to the manufacturers instructions)

2x5litre case
20 litre jerry cans.